

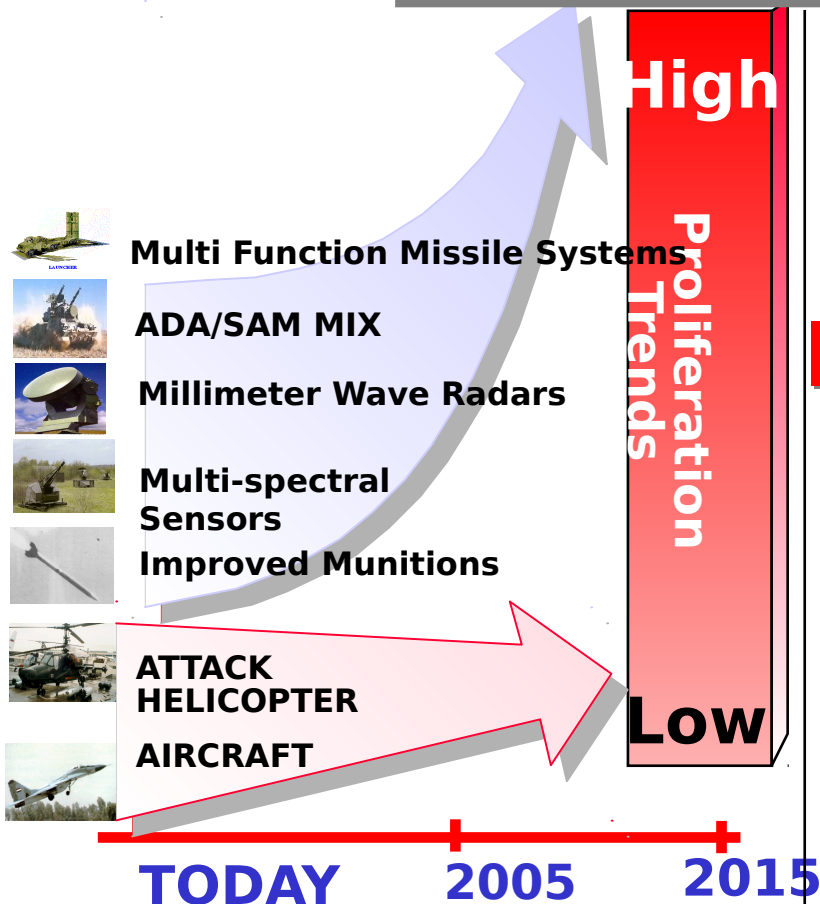


The Changing Strategic Paradigm



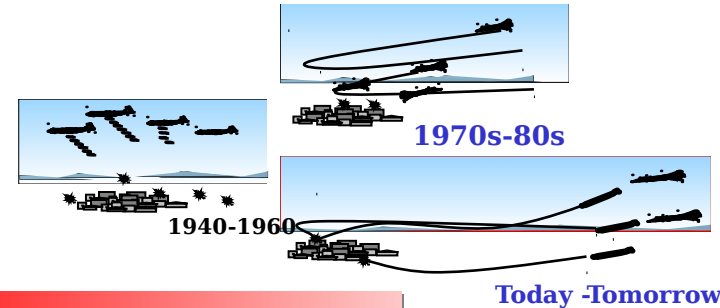
General Air Defense Trends

WHY IT'S CHANGING



EVOLUTION CHARACTERIZED BY CHANGE IN THE TARGET SET

Applying Lessons Learned... Adoptive and Adaptive



Emerging Capabilities

Multi-spectral sensor integration

NOE/OTH Radar capability

Integration of gun and missile

Advanced munitions

Enhanced targeting

Emerging Strategies

Opportunistic in nature

Redundant C3I

Dispersed, Integrated, and Decentralized engagement

Mixed automated and manual tracking-- win war of weather

Maximum use of complex terrain

Non Traditional Air Defense Employment ...

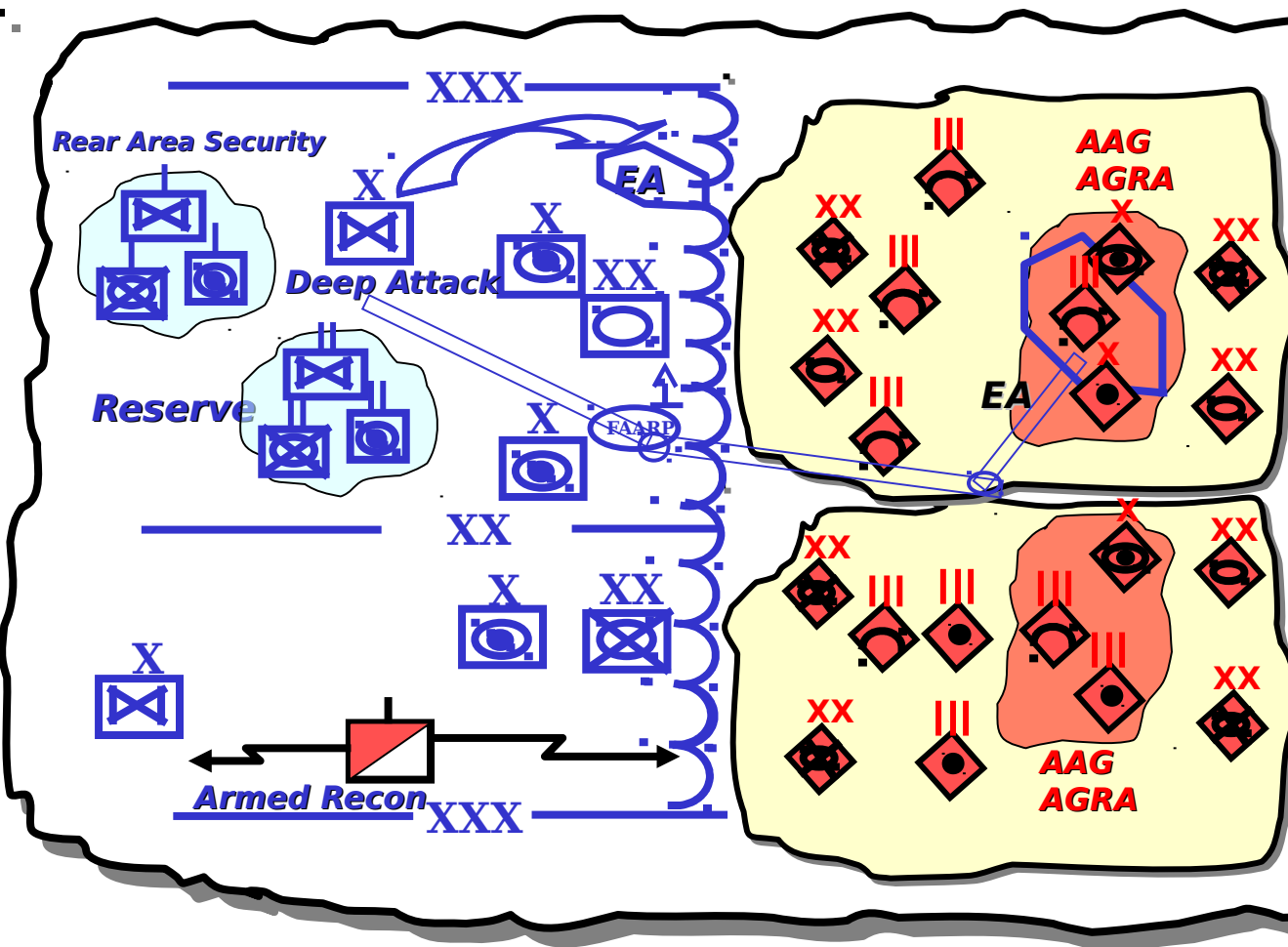
Air Defense Ambush

INCREASING RISK TO US FORCES

Yesterday....Today

Strateg

Defensive... Counterattack Offensive



Conditions

- Linear Battlefield
- Rear Areas (Sanctuary)
- Massed Formations
- Defensive ADA
- Area Lethal SEAD possible

Roles

- Deep Operations
- Maneuver Support
- Lift/Air Assault
- C2

Threats

- Air/Missile Attacks to Airfields
- SOF Attacks/WME
- Artillery/Rocket Attack to FAIRP
- IAD- Protecting Targets and Along Routes
- EW- Jamming Coms, Radars and GPS
- EMP
- Conventional, Non-Air



Today...Tomorrow

Strategy

Offensive

Defensive



Military Systemology

Fire Support

C2

Air Defense

Logistics

ISR

Maneuver

Indirect approach. Attack US systems and sub-systems rather than forces

Conditions

- Non-Linear Battlefield
- No Rear Areas (No Sanctuary)
- Offensive ADA
- Dispersed Targets
- Expanded ISR
- Precision SEAD Required

Roles

- Deep Operations
- Maneuver Support
- Lift/Air Assault
- C2

Threats

- Air/Missile Attacks
- WME
- Direct Fires
- SOF
- Artillery/Rocket Attacks
- Passive Sensors
- EW, Jamming Coms, Radars and GPS
- EMP
- Offensively Focused



Changing Threat Battlespace

Blue Fixed Wing Response

**Altitude
Speed
Countermeasures
Fixed Targets**

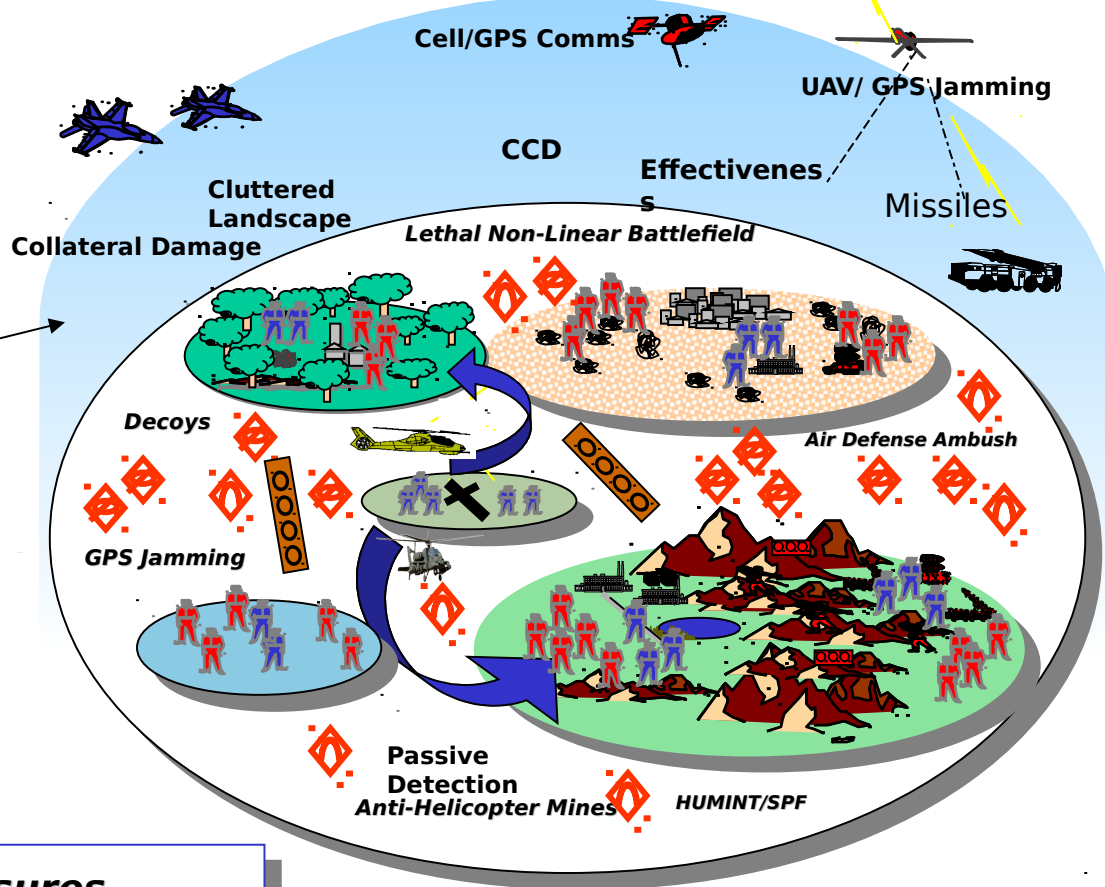
..creates a gap in target acquisition

Blue Rotary Wing Response

**SA/SU
Combined Arms
MuM Teaming**

**Countermeasures
Proactive, Precision SEAD
Precision Fires & Maneuver
TTP**

= Responsive, lethal, dedicated Aviation support to dominate the threat



Rotary Wing Aviation fills the gap ... provides close air support to the ground commander

Threat Assessment

- Restricts Freedom of Maneuver in Single Dimensional Operations
- Mixture of High Tech, Hybrid and Conventional Capabilities
- Maximizes Cover, Camouflage and Deception
- Fights on Own Turf, Knowledge of Terrain, Weather and

**Not Just a Mission for Army Aviation,
It is a Combined Arms/Joint Force
Mission**



**Pantzyr S-1 SP AD
System**

Aviation, as part of the Combined Arms Team

Execute the enduring missions in support of Commander's scheme of maneuver in Joint and Combined arms environment

Specifically:

- Provide agility, lethality and responsiveness throughout depth of battlespace
- Provide direct fires and maneuver unconstrained by terrain through mutual support of ground forces
 - Create Overmatch with reinforcing combat power through fires and maneuver
 - Force enemy into multi-dimensional fight
 - Orchestrate direct and indirect fires to force enemy from position of strength
- Shape and isolate decisive operations
 - Deny enemy freedom of movement
 - Provide cognitive man-in-the-loop C2 to acquire, fix and destroy targets
- Target acquisition and precision fires at extended ranges
- Vertical dimension of Combined Arms Team

This is Why We Have Army Aviation...